

The virtually browseable collection

connecting GIS to whole drawer imaging

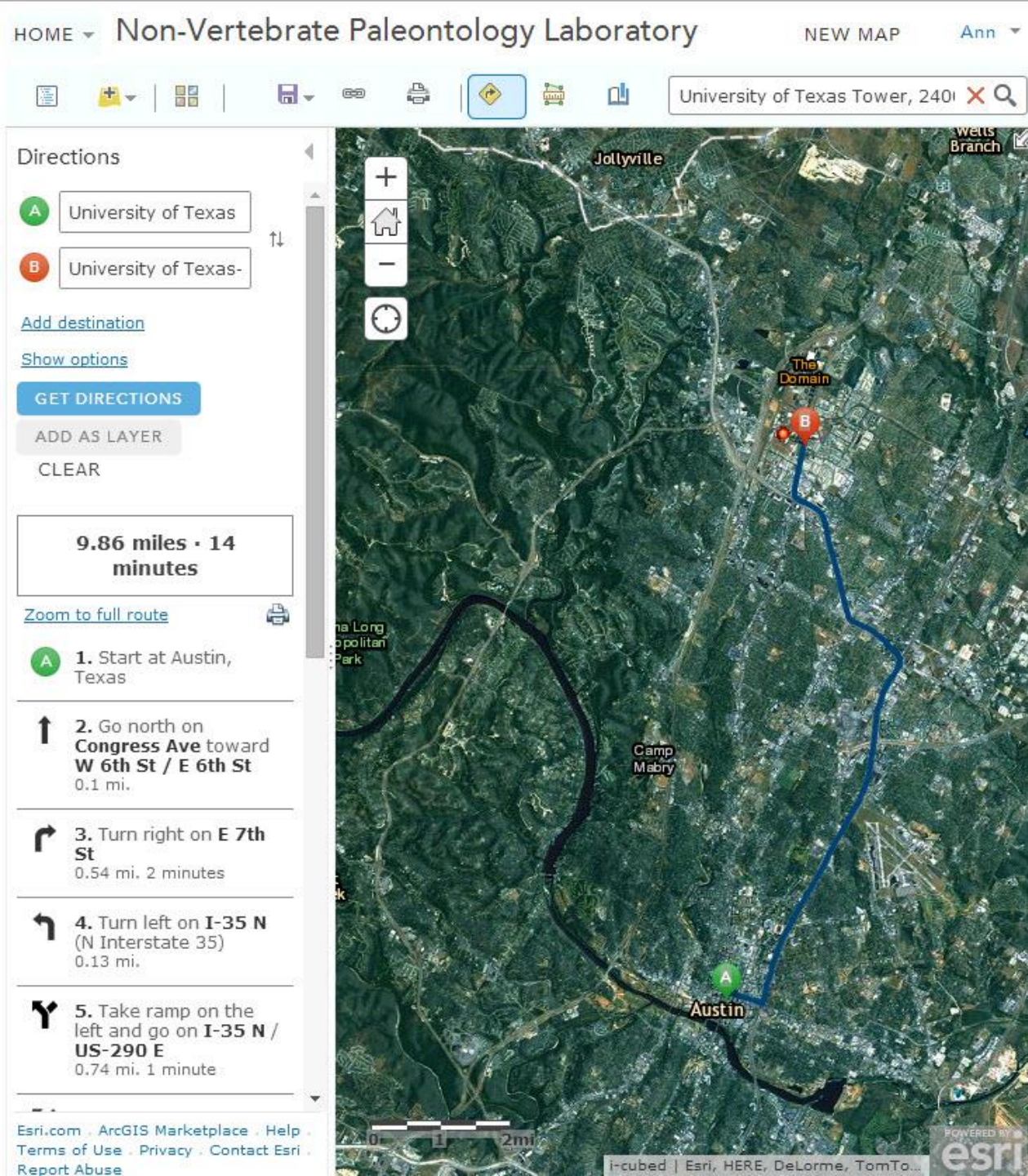
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Jackson School of Geosciences, The University of Texas at
Austin

The problem

- Pressure for premium space
- Resistance of researchers to separate from their collections
- Out of sight: Out of mind
- Lack of interest in or education about the value of research collections
- Shortage of support to hire staff to make large collections fully accessible in a traditional use model.

Our scenario

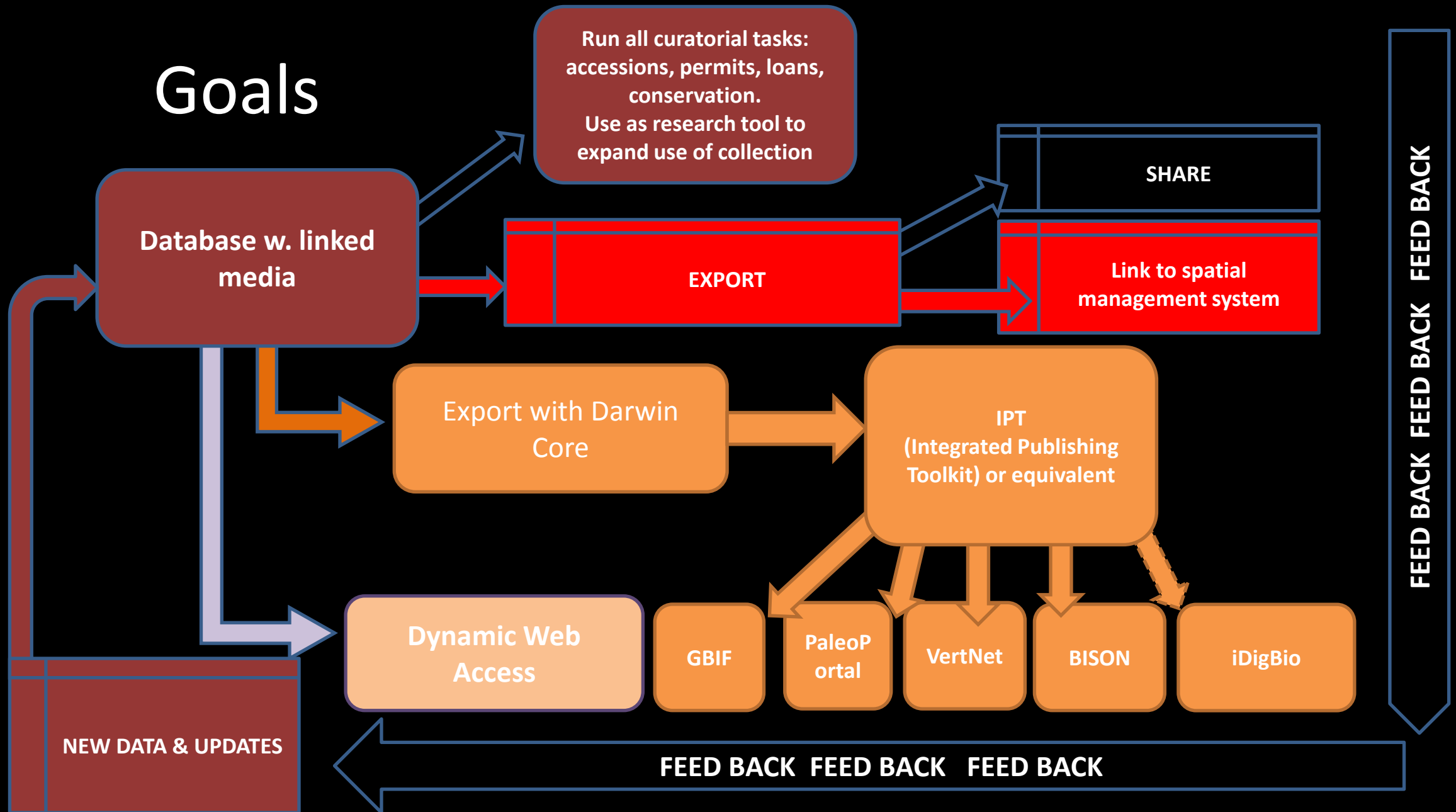
- ONLY 10 miles to UT
- 14 minutes by car
- 35 minutes by bus
- Mental distance??



Basics of our project

- Database with each specimen (Collection Object) tagged with full repository address
- Images of individual specimens attached to Collection object records
- Images of each drawer linked to drawer record
- GIS map of repository

Goals



Portal access

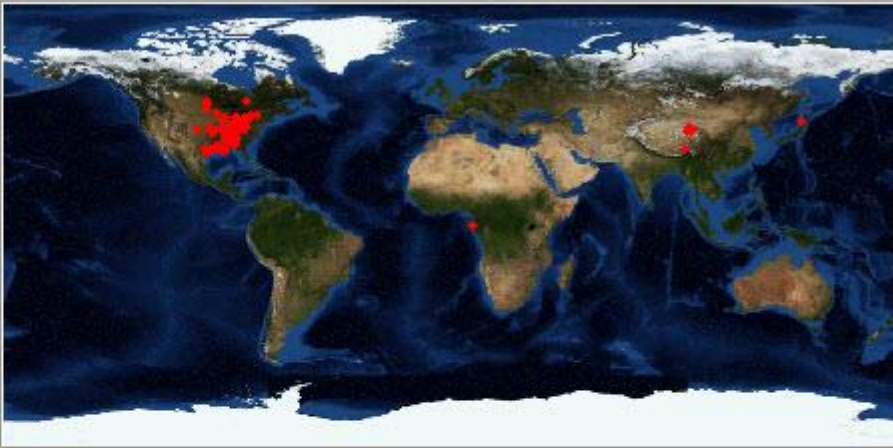
Species Name:

Quadrula (189)


- Quadrula apiculata (3)
- Quadrula aurea (1)
- Quadrula cylindrica (2)
- Quadrula forsheyi (1)
- Quadrula heros (1)
- Quadrula houstonensis (2)
- Quadrula intermedia (1)
- Quadrula metanerva (1)
- Quadrula metanerva (2)
- Quadrula mortoni (4)
- Quadrula nodulata (3)
- Quadrula postulosa (1)
- Quadrula pustulosa (54)
- Quadrula pustulosa mortoni (1)
- Quadrula pustulosa pernodosa (6)
- Quadrula pustulosa pustulosa (28)
- Quadrula pyramidata (1)
- Quadrula quadrula (58)
- Quadrula refulgens (5)
- Quadrula rumphiana (2)
- Quadrula stapes (5)
- Quadrula tuberculata (1)
- Quadrula tuberculata tuberculata (1)

Search My Data

World Overview of Lifemapper/GBIF Occurrence Results



Interactive View of Results

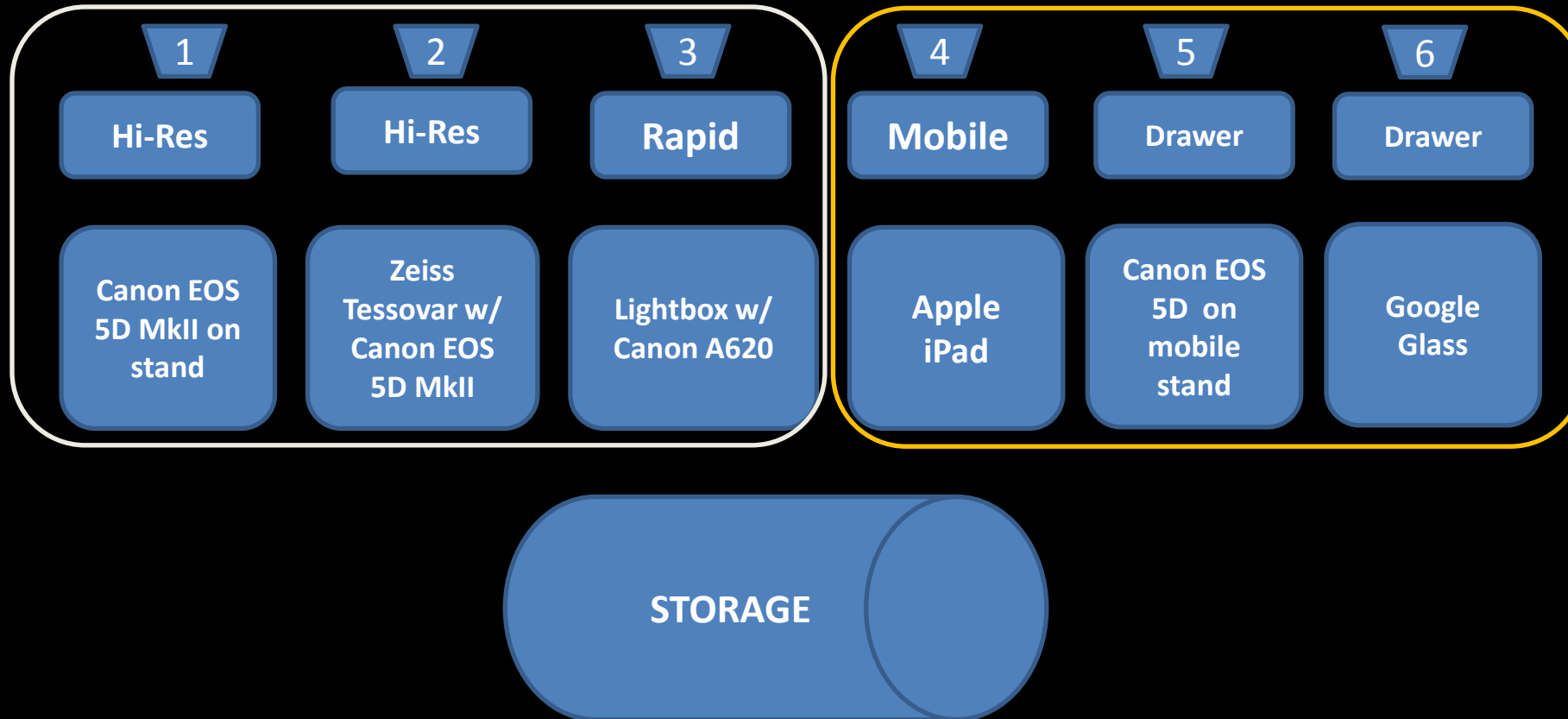


Altitud... Lat 40... Lon -9... Elev ...

Image strategy

Specimens to camera

Camera to specimens



Research quality imaging and data access

Eopinnacrinus pinnulatus Brower & Veinus n.gen., n

PaleoCentral

HOME MAP RECORDS REFERENCES TOOLS LOGIN

Types Collection

[Records](#) » TX 1121.66

Scientific Name

Eopinnacrinus pinnulatus Brower & Veinus n.gen., n

Common Name

crinoid

Taxonomic Hierarchy

Phylum: Echinodermata

Class: Crinoidea

Order:

Family:

Collector

Collector: Graffham, A.

Collection Date:

Publication

Brower & Veinus. 1982. Sprinkle, J. T. (Ed.), University of Kansas
Paleontological contributions, Monograph 1, pl. 11 fig. 3, 7, fig. 42a, fig.
42b, p. 141.

Locality Verbal

West Branch Sycamore Cre

Geographic Location

Johnston County, Oklahom

Geologic Age

Era: Paleozoic

Period: Ordovician

Epoch: Late

Age: Katian (Mohawkian)

Stratigraphic Position

Group: Simpson

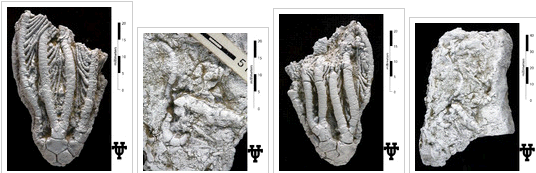
Formation: Bromide

Member: Mountain Lake

Storage Location

PRC122, Types, 19, 50

Images

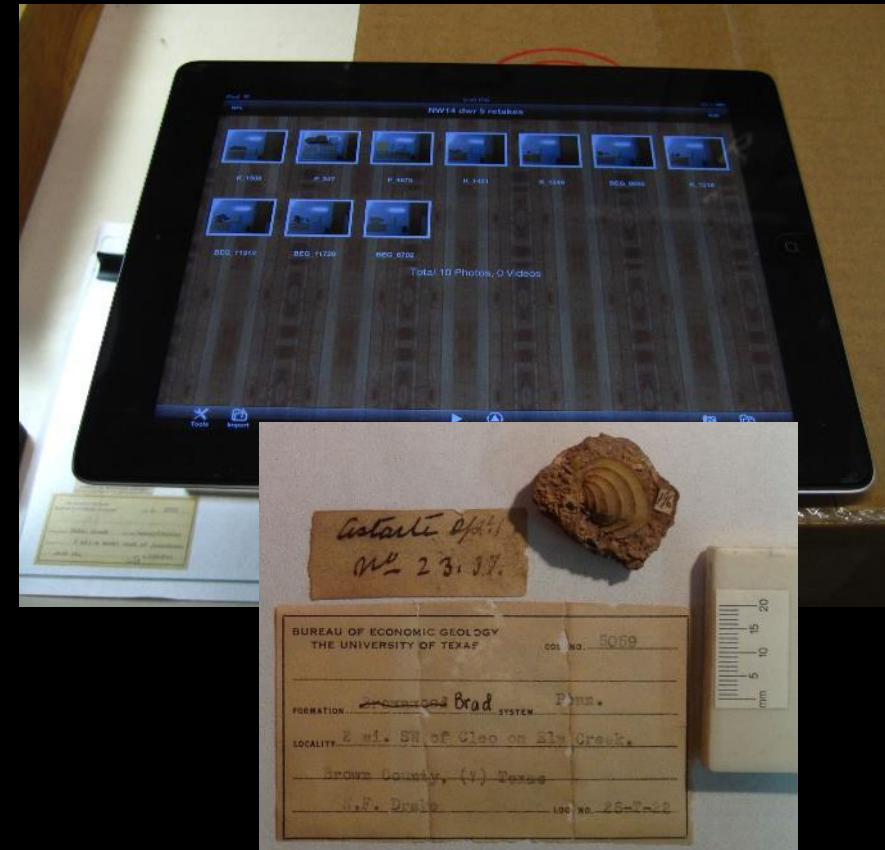


Notice how the "cheek"
is recessed here as opposed
to the opposite side.



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Rapid imaging with inventory



Online browsing

NW 28: 24 images



NPL 62041

FORMATION _____ AGE Cret.
LOCALITY 1 1/2 mi. north of Goodland,
Indian Territory
COL. NO. _____ LOC. NO. _____
THE UNIVERSITY OF TEXAS BUREAU OF ECONOMIC GEOLOGY
GEOLOGICAL SURVEY OF TEXAS (DUMBLE SURVEY)
RED NO. () WHITE NO. _____ GREEN NO. _____
J.A. Taff- No. 1, NB. I, p. 4
April 9, 1892
Labeled: Pholadomya
"Fredricksburg Div."

Form 2.—1889. Fredricksburg Div.
No. 1 N B. I P. 4 1892
Pholadomya
Locality 1 1/2 mi. n. of Goodland, Ind. T.
Examine for Fred. Div.
Collector: J. A. Taff


4/9/2014

<http://bit.ly/npl2014>

New connections

[ArcGIS](#) [FEATURES](#) [PLANS](#) [GALLERY](#) [MAP](#) [HELP](#)

Travis County Fossil Collection



Fossil sample collection (from NPL's database) in Travis County, TX, shown over time.

Web Map by artemisharbert
Last Modified: April 16, 2014
★★★★★ (0 ratings, 27 views)

Sign in to rate this item.

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[OPEN](#)

Description

Access and Use Constraints

Map Contents

Fossil with collection date:
<https://services1.arcgis.com/7DRakJXKPEhvw0fM/arcgis/rest/services/year/FeatureServer/0>

Fossil with approximated collection date:
<https://services1.arcgis.com/7DRakJXKPEhvw0fM/arcgis/rest/services/approx/FeatureServer/0>

City of Austin Major Arterials:
https://services1.arcgis.com/7DRakJXKPEhvw0fM/arcgis/rest/services/City_of_Austin_Major_Arterials/FeatureServer/0

Topographic:
https://services.arcgisonline.com/ArcGIS/rest/services/World_Topo_Map/MapServer

Properties

Tags	Fossil Date
Credits	
Size	8 KB
Extent	Left: -98.62 Right: -96.84 Top: 30.84 Bottom: 29.92

<http://bit.ly/UZCGEQ>

6/7/2014

ArcGIS - Travis County Fossil Collection

[Details](#) [Basemap](#) [Share](#) [Print](#) [Measure](#)

[About](#) [Content](#) [Legend](#)

Contents

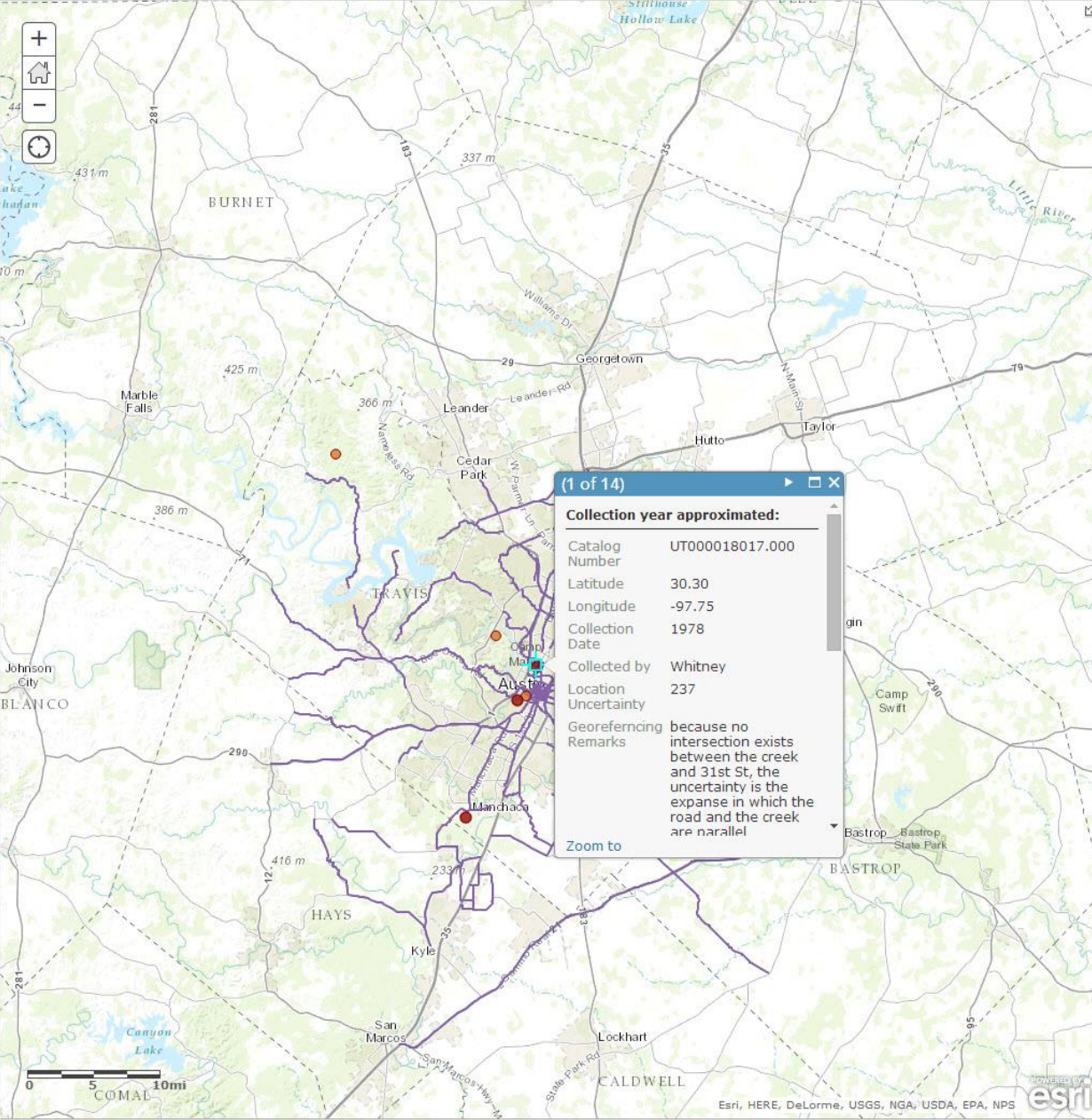
- ☒ Fossil with collection date
- ☒ Fossil with approximated collection date
- ☒ City of Austin Major Arterials
- ☒ Topographic

(1 of 14)

Collection year approximated:

Catalog Number	UT000018017.000
Latitude	30.30
Longitude	-97.75
Collection Date	1978
Collected by	Whitney
Location Uncertainty	237
Georeferencing Remarks	because no intersection exists between the creek and 31st St, the uncertainty is the expanse in which the road and the creek are parallel

[Zoom to](#)



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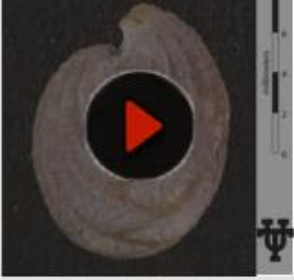
Esri, HERE, DeLorme, USGS, NGA, USDA, EPA, NPS

1879 to 1909

Future developments.....



Connect with the 21st century



4 pictures Last Updated 2014






PLESIOTYPE
Locality: Junction of Road and Gilland Canyons, Brewster County, Texas

Collected by: King, 1931

Based on your interest in: The Brewster Formation and Hustedia

Ann's Rating:
★★★★★

Because you liked *H. meekana*



Develop your preferences

Taste Preferences

Select a category type:
Featured Categories

How often do you view	Never	Sometimes	Often	
Popular	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Need some examples?
Plantae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Need some examples?
Animalia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Need some examples?
Fungi	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Sometimes Need some examples?

And into the future

Taste Preferences

Select a category type:
Featured Categories

How often do you view


Never

Sometimes

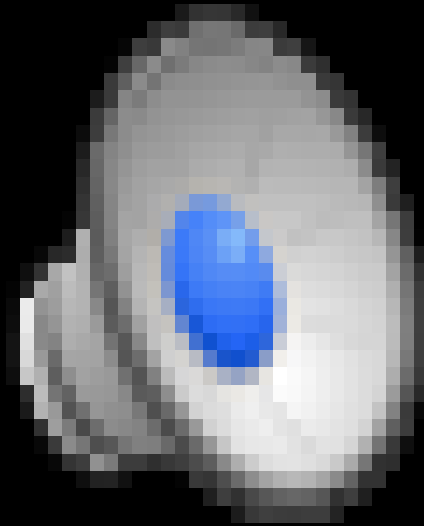
Often

Popular	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Need some examples?
Plantae	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Need some examples?
Animalia	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Fungi	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	Sometimes

Plantae



Increasing the basic drawer capture?



Acknowledgements

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 - EF-1305070: *Digitization PEN: Targeted digitization to expand and enhance the Paleoniches TCN.*
 - Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.